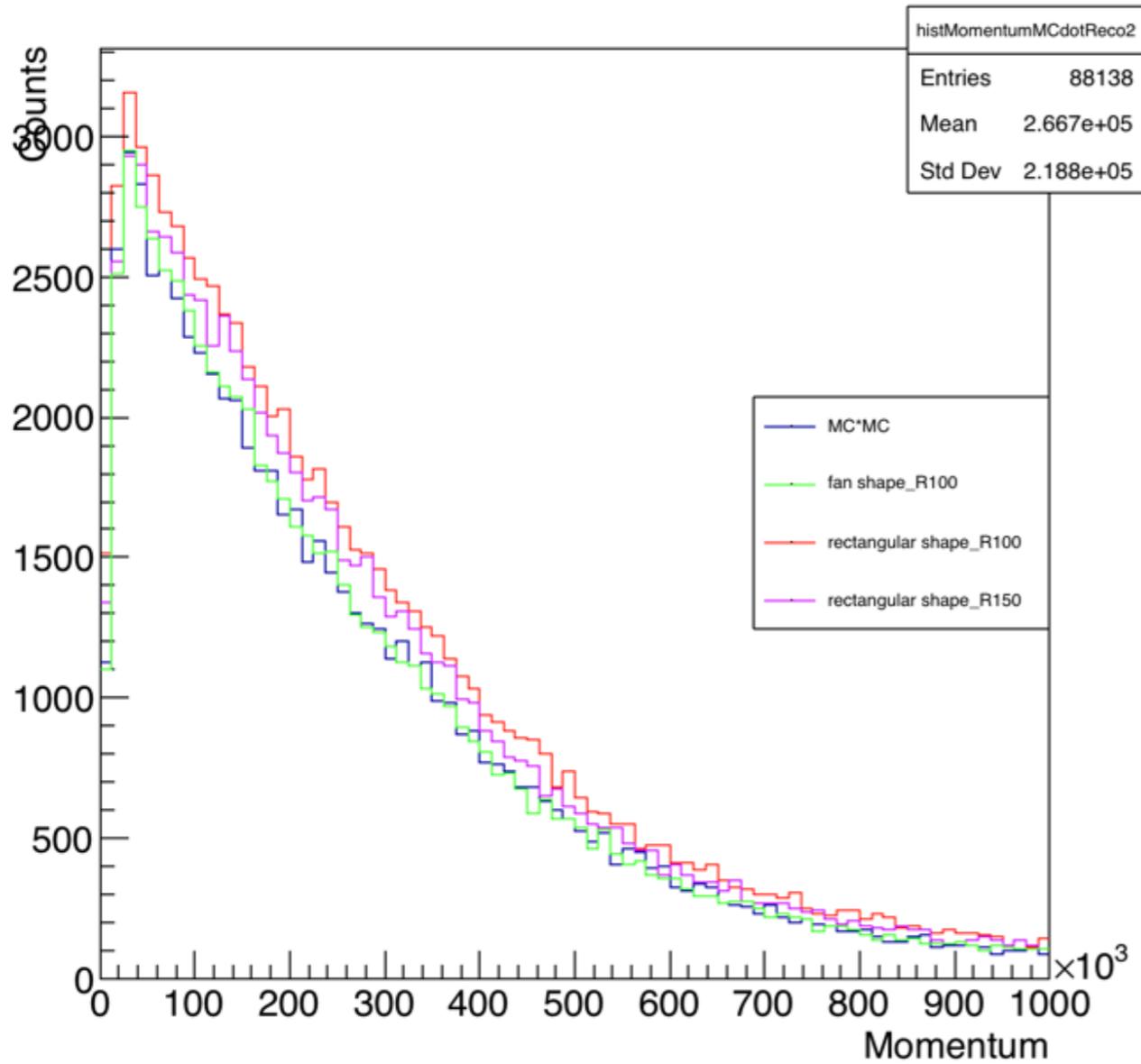


LAMPS-TPC Simulation Status

Momentum Distributions

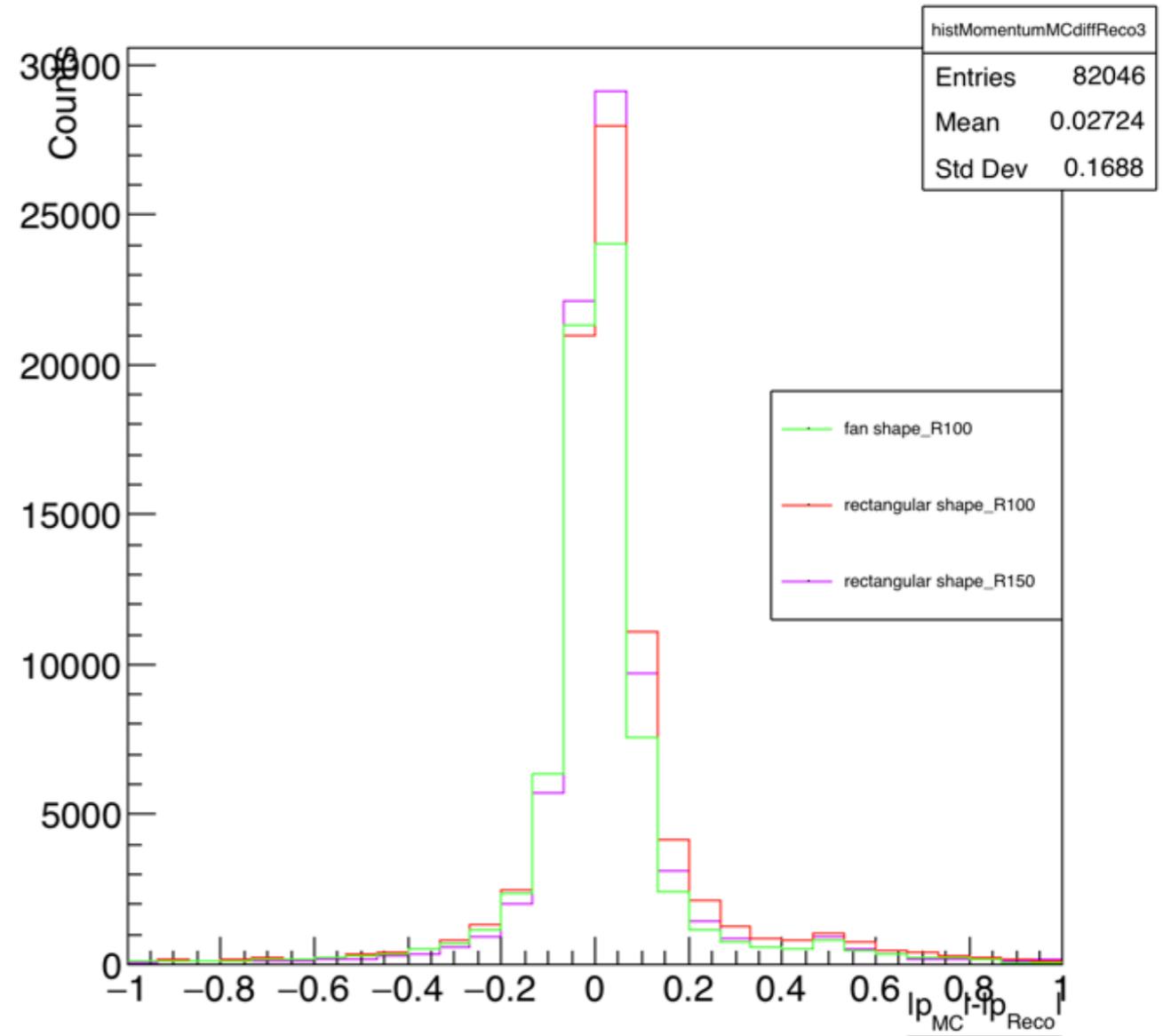
- 1000Events 부채꼴패드 vs 직각패드 R100 vs 직각패드 R150 -

MCdotRECO Momentum distribution



$$p_{MC} \bullet p_{reco}$$

MCdiffRECO Momentum distribution



$$\frac{|p_{MC}| - |p_{reco}|}{|p_{MC}|} < 0.1 \quad \text{조건}$$

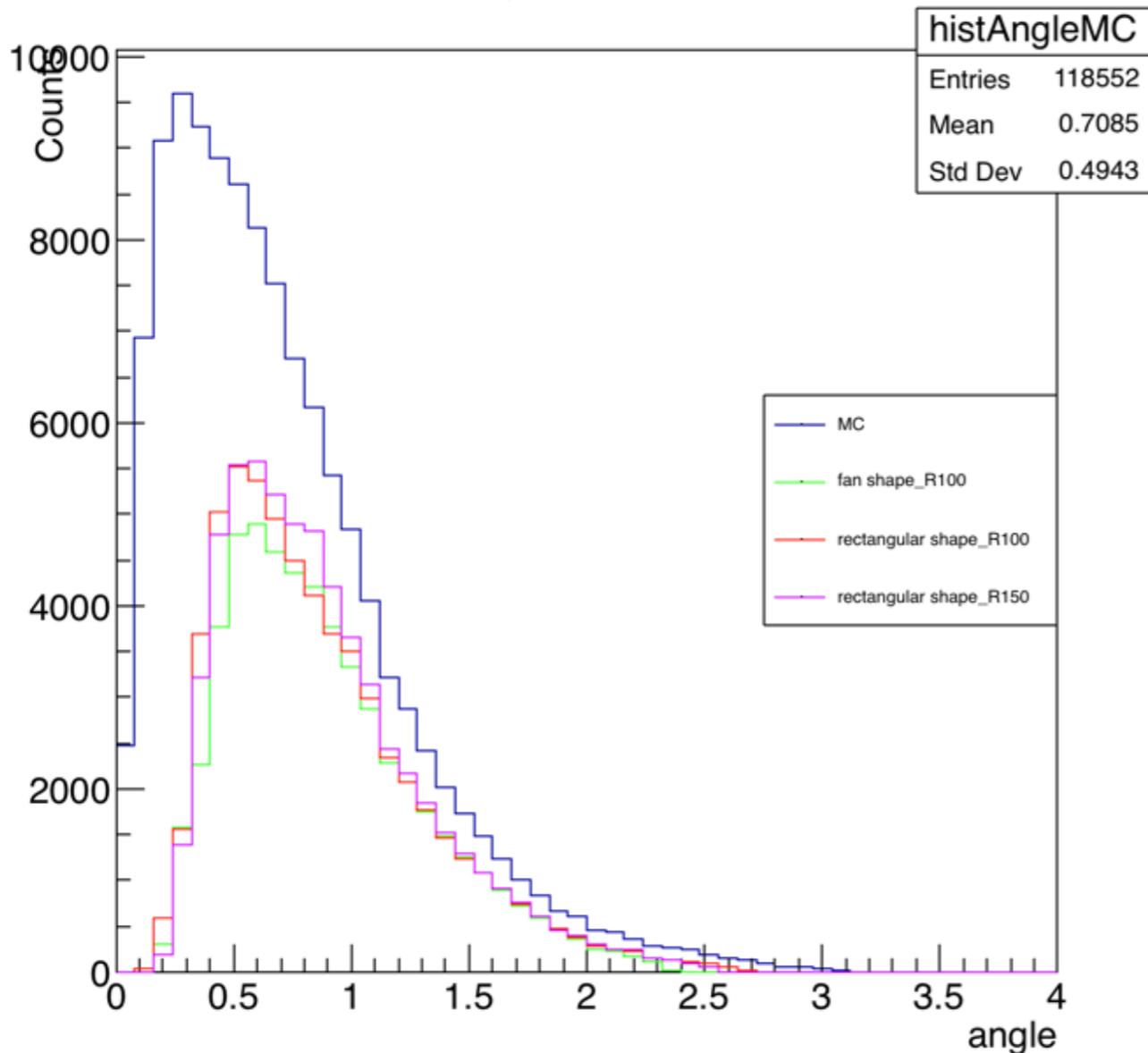
$$\frac{|p_{MC}| - |p_{reco}|}{|p_{MC}|} < 0.1$$

Angle Distributions

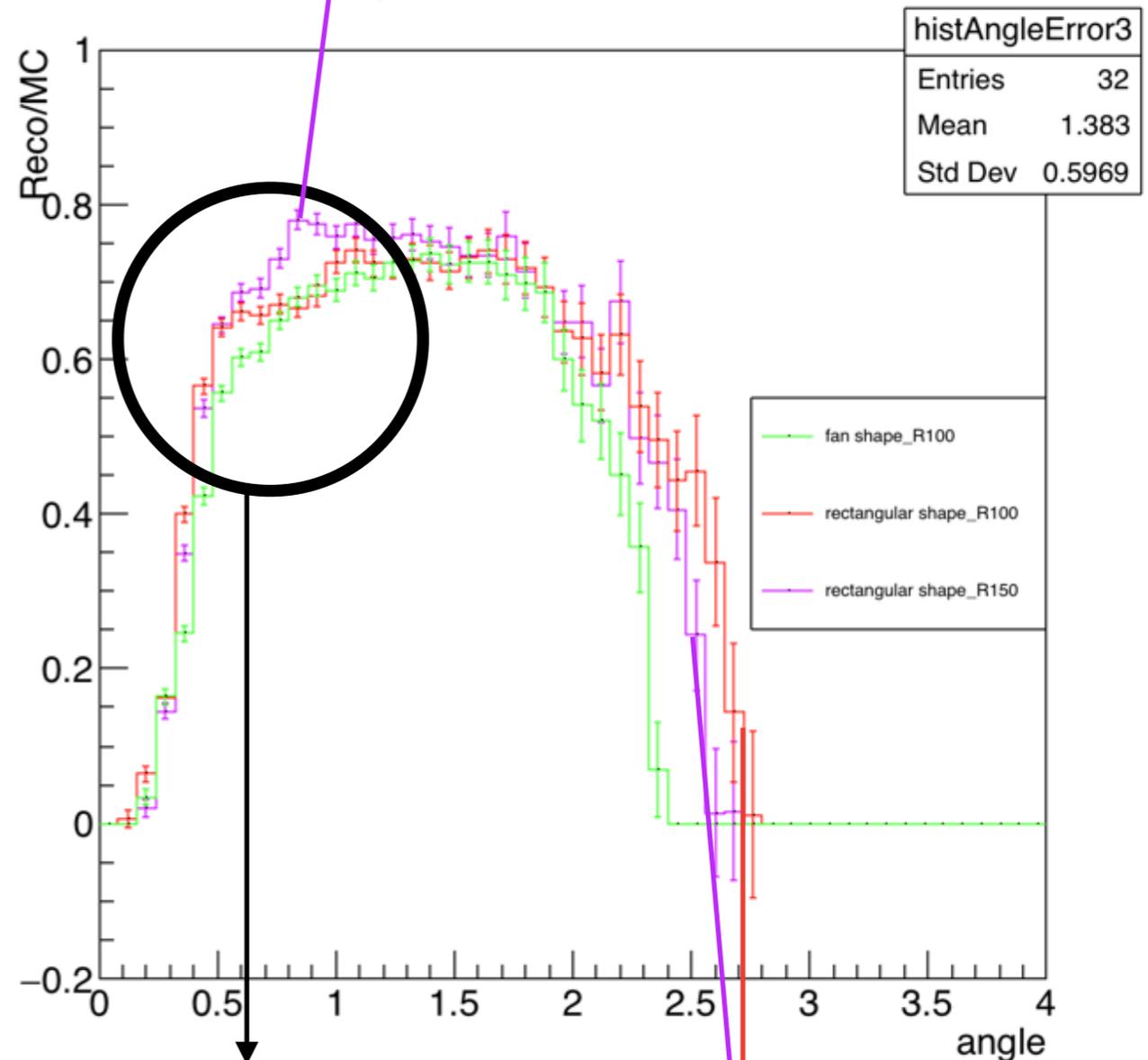
- 1000Events 부채꼴패드 vs 직각패드 R100 vs 직각패드 R150 -

?, 보라색만 올라오는 이유는 모르겠음

MC Angle distribution



Angle Error distribution



$$angle = \arctan\left(\frac{p_T}{p_Z}\right) = \theta$$

가스 차이가 아닌 듯함

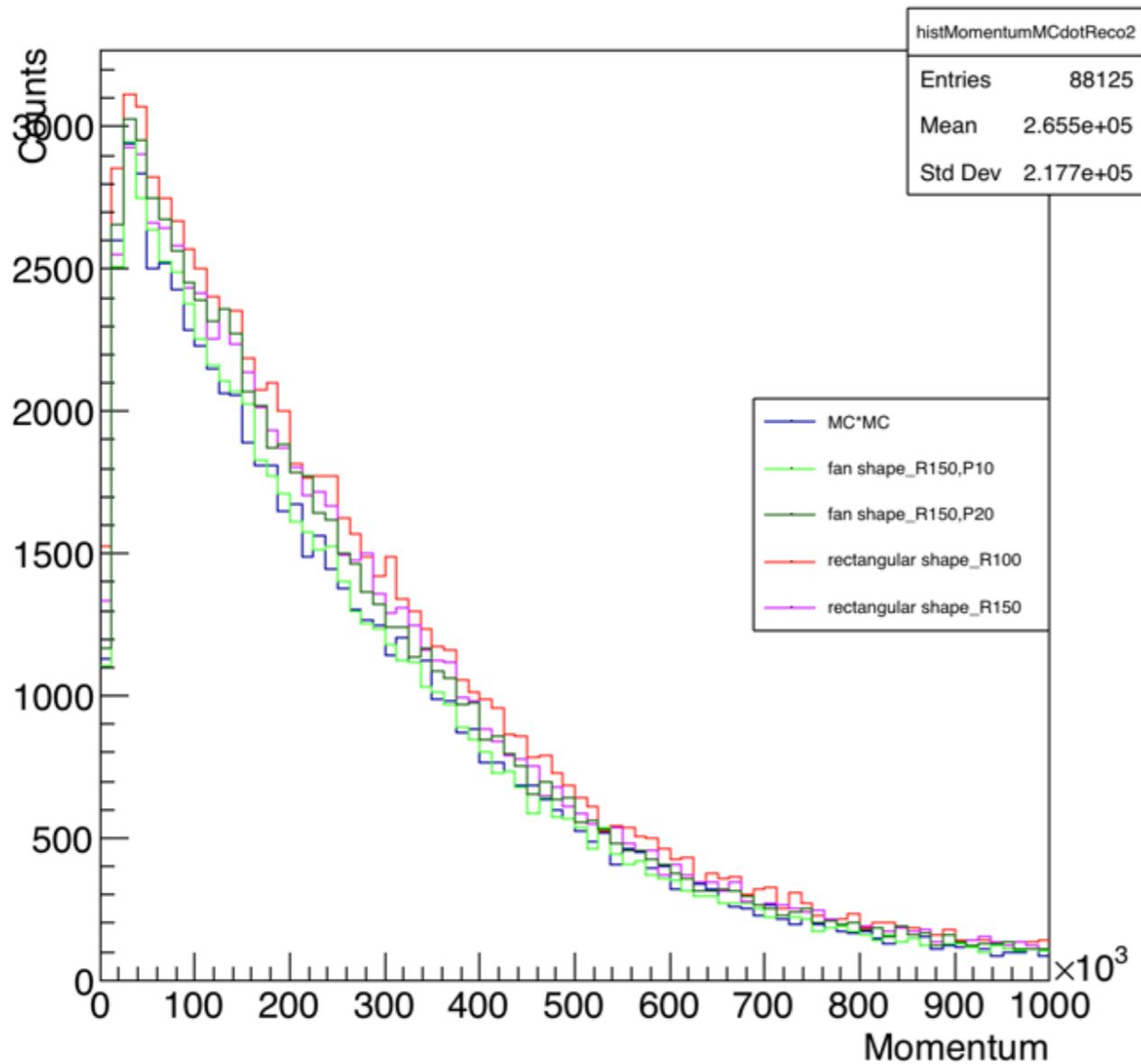
반지름 차이로 최대 각도가 다름

부채꼴 패드 + P20도 추가해서 살펴보았음

Momentum Distributions

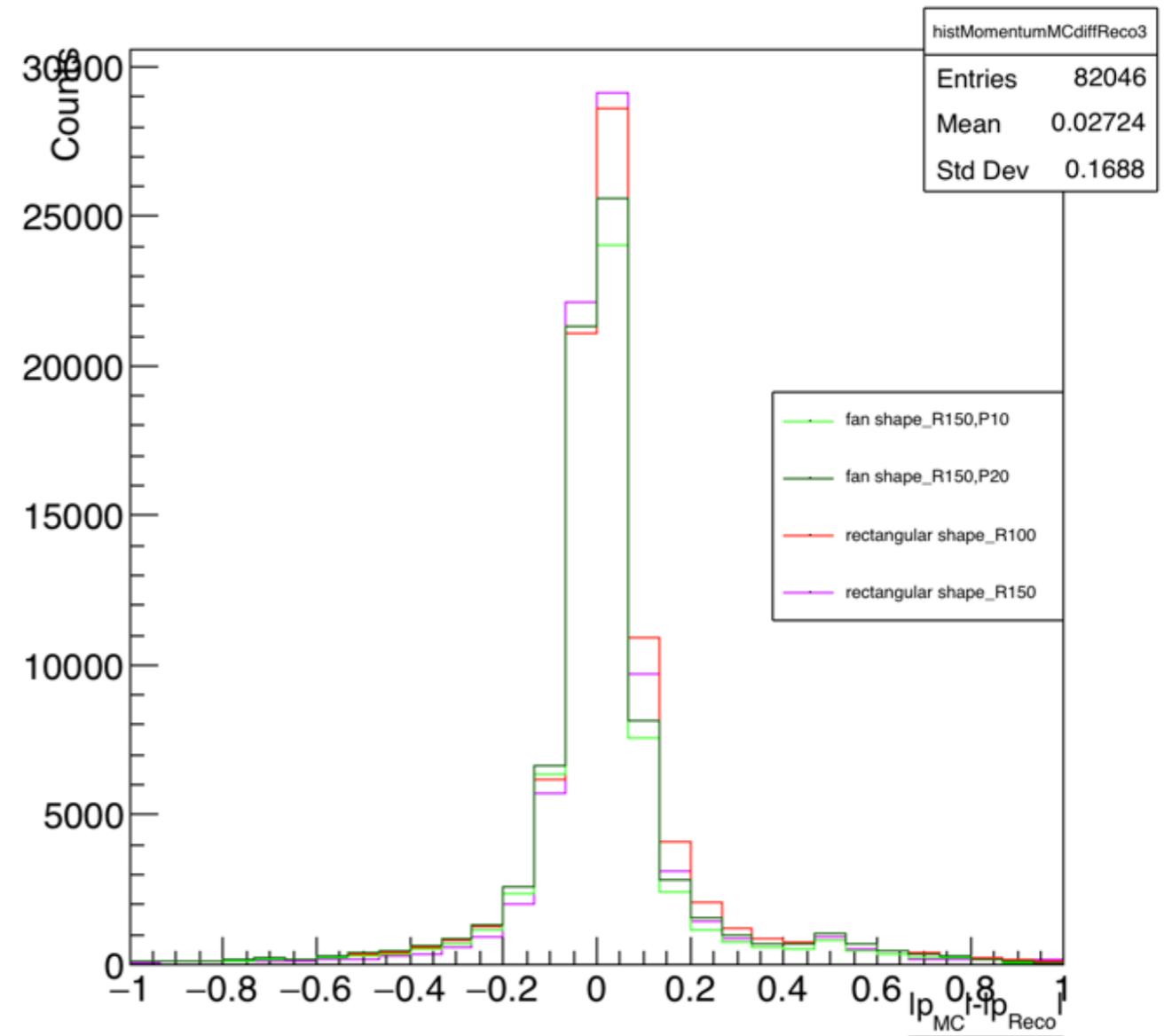
- 1000Events 부채꼴패드 vs 직각패드 R100 vs 직각패드 R150 -
 부채꼴 패드 + P20가스 추가 : 진한 녹색 선

MCdotRECO Momentum distribution



$$p_{MC} \bullet p_{reco}$$

MCdiffRECO Momentum distribution



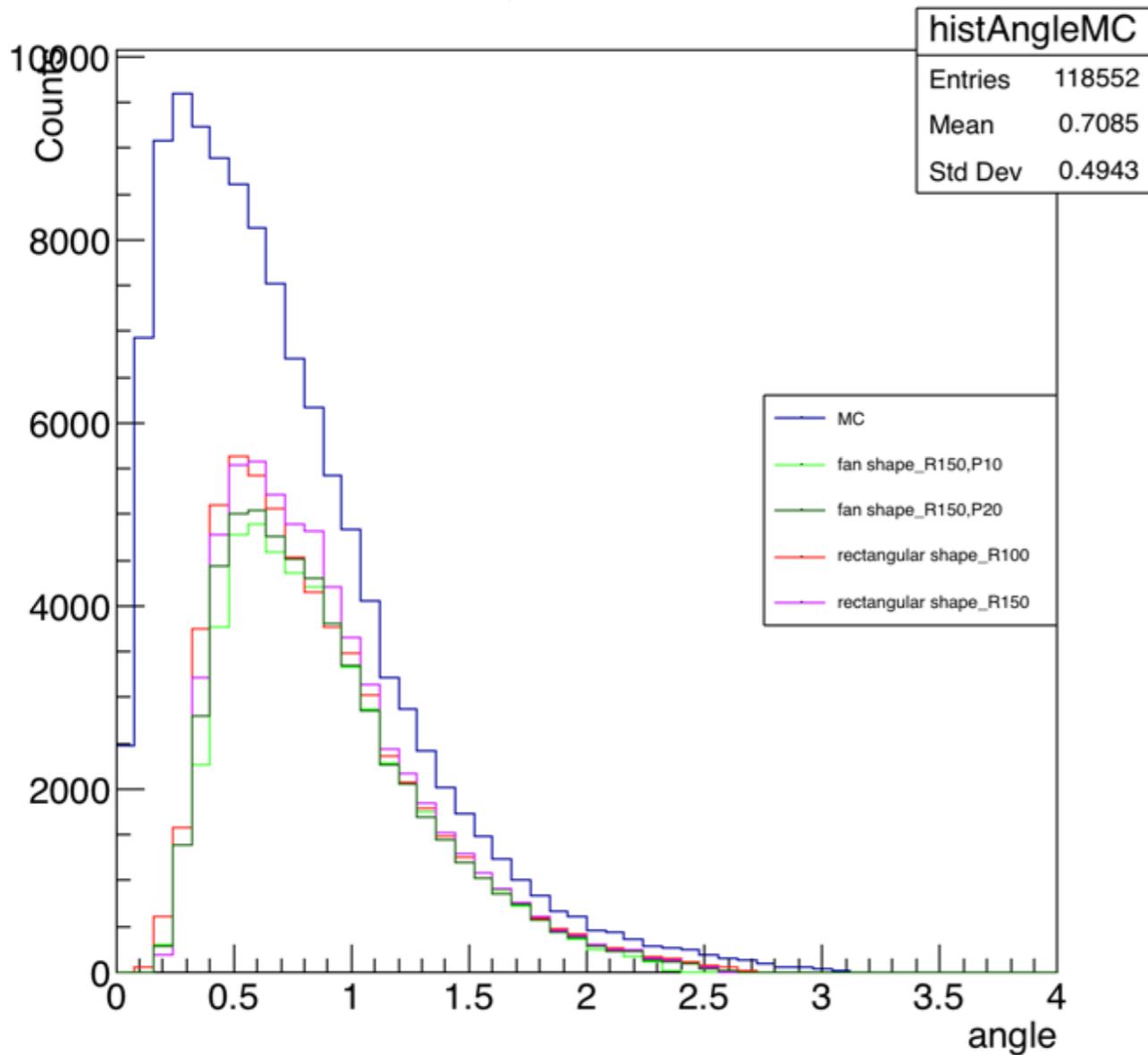
$$\frac{|p_{MC}| - |p_{reco}|}{|p_{MC}|} < 0.1 \quad \text{조건}$$

$$\frac{|p_{MC}| - |p_{reco}|}{|p_{MC}|} < 0.1$$

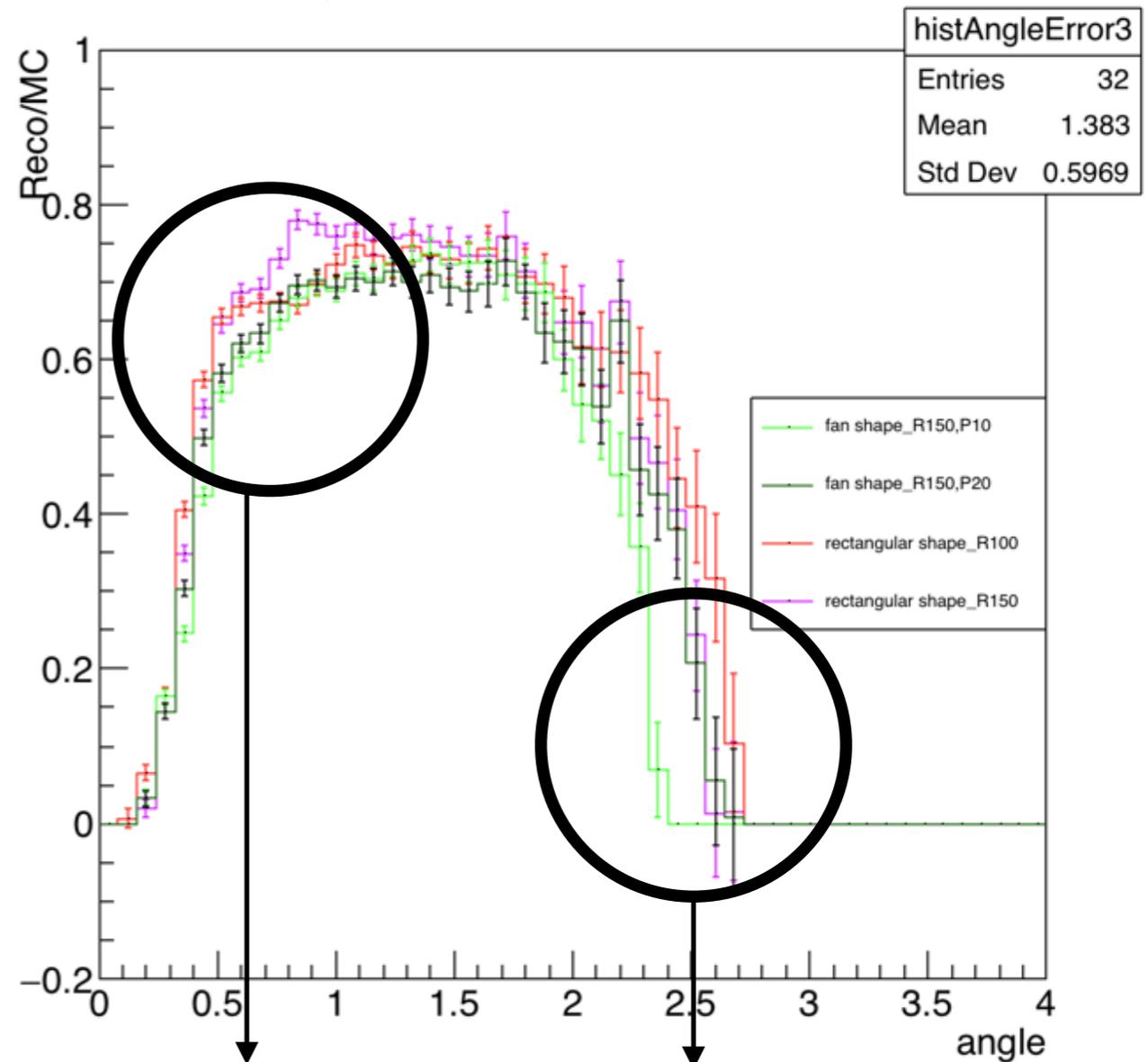
Angle Distributions

- 1000Events 부채꼴패드 vs 직각패드 R100 vs 직각패드 R150 -
 부채꼴 패드 + P20가스 추가 : 진한 녹색 선

MC Angle distribution



Angle Efficiency distribution



$$angle = \arctan\left(\frac{p_T}{p_Z}\right) = \theta$$

패드 차이인가?

박사님 말씀대로 가스차이
 가스 내 drift velocity가 달라서